DISCLAIMER: The use of this standard is kind is made by TxDOT for any

TABLE OF ESTIMATED QUANTITIES 2

CI "C" Conc (Column)

BARS Z

QUANTITIES

5 DILE RENT

TABLE OF ESTIMATED

1												
	3 (COLU	IMN	BE	NT	5 PILE BENT			•			
Bar	No.	Size	Lei	ngth	Weight		Bar	No.	Size	Ler	igth	Weight
Α	8	#11	41'	-11"	1,782		Α	5	#11	41'	-11"	1,114
Q	5	#6	1'	-6"	11	l	В	4	#11	7'	-6"	159
S	62	#5	9'	-4"	604	l	Q	5	#6	1'	-6"	11
T	2	#5	41'	-11"	87		5	48	#5	9'.	-4"	467
V	24	#7	26	'-3"	1,288	l	T	2	#5	41'	-11"	87
Z	3	#3	242	2'-2"	273	l						
Reinfo	rcing	Steel		Lb	4,045		Reinfo	rcing S	teel		Lb	1,838
CI "C"	Conc	(Cap)		CY	9.6		CI "C"	Conc (Cap)		CY	9.6

(1) See CS-MD standard for preformed bituminous fiber material.

CY

- Quantities shown are based on an "H" value of 24 feet. For each linear foot variation in "H" value, make the following adjustments: Bars V length, 1'-0" Bars Z length, 9'-6" Reinforcing Steel, 60 Lb Class "C" conc (column), 0.35 CY
- 3) This standard may not be used for "H" heights exceeding 24 feet or exposed pile heights exceeding the values shown in the tables. In areas of very soft soil or where scour is anticipated, allowable "H" heights or exposed pile heights must be evaluated by the Engineer prior to the use of this standard.

8.4

4) When HP14x117 steel piling is specified in the plans, the Contractor has the option of furnishing either HP14x117 or HP16x101 steel piling.

MATERIAL NOTES:

Provide Class C concrete (f'c = 3,600 psi).

Provide Class C (HPC) concrete if shown elsewhere in the plans. Provide Grade 60 reinforcing steel.

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications. Details showing right forward skew. See Bridge Layout for actual

See Bridge Layout for foundation type, size and length. See Common Foundation Details (FD) standard sheet for foundation details and notes.

These bent details do not support the use of multi-pile footings as shown on the FD standard. See Miscellaneous Details for C-I-P Concrete Slab Spans (CS-MD)

standard sheet for details not shown.

For usual soil and construction conditions, slab formwork may be supported from the sides of bent caps if one of the following is satisfied:

1) For column bents, a maximum "H" height of 24'.

2) For pile bents, a maximum exposed pile height of 20'.
Calculated Foundation Loads: 90 Tons/drilled shaft (based on "H" = 24") 55 Tons/pile

These bent details may be used with standards CS-25-38, CS-50-38-15, CS-75-38-15, and CS-80-38-15 only.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar.

HL93 LOADING



Bridge Division Standard

INTERIOR BENTS FOR C-I-P CONC SLAB SPANS

38 FT ROADWAY

15° SKEW

BCS-38-15

FILE: bcs11ste-21.dgn	DN: HTP		CK: SDC	DW:	LJC	CK: TAR
©TxD0T July 2021	CONT	SECT	JOB		HI	GHWAY
REVISIONS						
	DIST		COUNTY			SHEET NO.

Pile	Max Ht			
Concrete	Steel	Ft		
16" Sq	HP14x73	16		
18" Sq	HP14×117 4	20		